

ABSTRACT OF THE DISCLOSURE

A vehicle navigation system and method for propagating a position of a vehicle utilizing a multiaxis accelerometer determines the pitch and roll of the vehicle without utilizing gyros and utilizes the calculated pitch and roll to propagate the position of the vehicle with the acceleration signals from the multiaxis accelerometer. This occurs in one of three situations (in order of complexity): 1) when the vehicle is not moving; 2) when the vehicle is moving and other speed and/or heading information is available and 3) when the vehicle is moving and other speed and/or heading information is not available.

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